Candidate supervisor's information summary form

Name and surname, degree, title: Marek Kieliszek, Prof. SGGW		
Scientific discipline/ disciplines	food and nutrition technology, biotechnology, microbiology	
Professional development (degrees and titles) in chronological order	University Professor, Institute of Food Sciences, Warsaw University of Life Sciences 2019 Habilitation, Institute of Food Sciences (previously: Faculty of Food Sciences), Warsaw University of Life Sciences 2015 Ph.D. engineer, Institute of Food Sciences (previously: Faculty of Food Sciences), Warsaw University of Life Sciences	
Most important publications/ patents in the last 3 years (maximum 10)	 Sciences), Warsaw University of Life Sciences Hyrslova I., Kana A., Nesporova V., Mrvikova I., Doulgeraki A. I., Lampova B., Doskocil I., Musilova S., Kieliszek M., & Krausova, G. (2024) In vitro digestion and characterization of selenized Saccharomyces cerevisiae, Pichia fermentans and probiotic Saccharomyces boulardii. Journal of Trace Elements in Medicine and Biology, 83, 127402. Kieliszek M., Piwowarek K., Kot A. M., Wojtczuk M., Roszko M., Bryla M., & Trajkovska Petkoska A. (2023) Recent advances and opportunities related to the use of bee products in food processing. Food Science & Nutrition, 11(8), 4372-4397. Kieliszek M., & Sandoval S. N. S. (2023) The importance of selenium in food enrichment processes. A comprehensive review. Journal of Trace Elements in Medicine and Biology, 127260. Piwowarek K., Lipińska E., & Kieliszek M. (2023) Reprocessing of side-streams towards obtaining valuable bacterial metabolites. Applied Microbiology and Biotechnology, 107(7), 2169-2208. Kieliszek M., & Bano I. (2022) Selenium as an important factor in various disease states-a review. EXCLI journal, 21, 948. Kieliszek M., Bano I., & Zare H. (2022) A comprehensive review on selenium and its effects on human health and distribution in middle eastern countries. Biological Trace Element Research, 200(3), 971-987. Jach M. E., Serefko A., Ziaja M., & Kieliszek M. (2022) Yeast protein as an easily accessible food source. Metabolites, 12(1), 63. Kieliszek M., Dourou M. (2021) Effect of selenium on the growth and lipid accumulation of Yarrowia lipolytica yeast. Biological Trace Element Research, 199(4), 1611-1622. Kieliszek M., Pobiega, K., Piwowarek, K., & Kot, A. M. (2021) Characteristics of the proteolytic enzymes produced by lactic acid bacteria. Molecules, 26(7), 1858. Kot A. M., Kieliszek M., Piwowarek K., Blażejak S., & Mussagy C. U. (2021) Sporobolomyces and Sporidiobolus-non-conven	
Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral programmes/procedures) in chronological order	yeasts for use in industries. Fungal Biology Reviews, 37, 41-58. November 19, 2021 - Resolution of the Discipline Council of Food and Nutrition Technology of the Warsaw University of Life Sciences - regarding confirmation of the supervision of M.Sc. eng. Wioletta Sęk and M.Sc. eng. Vitaliy Kolotylo.	

Project/grants achievements (in the last 10 years)	 Project Preludium Bis-2, 2020/39/O/NZ9/00639, National Science Center, "The effect of selenium and anhydrobiosis on the physiological activity of yeast cells" Project Miniatura 2017/01/X/NZ9/00339 (12/09/2017-11/10/2018), National Science Center, "The influence of selenium on the assessment of the activity of the antioxidant system of yeast cells" Project 505-10-092800-Q00349-99 (2018-2019), "Proteomic analysis of selenium proteins isolated from yeast strains" Project 505-10-092800-N00287-99 (2016-2017), "Studies on the bioaccumulation of selenium from aqueous Na₂SeO₃ solutions by the yeast <i>Candida utilis</i> ATCC 9950 using glycerol and waste potato juice water as components of the culture medium" Project 510-01-ZM-02 (2014), "Production of extracellular proteolytic enzymes by selected strains of <i>Lactobacillus</i> bacteria depending on the nitrogen source in the medium and the use of experimental statistics" Project 500-01-ZM-04 (2014), "Assessment of the suitability of lactic acid bacteria and yeast strains for the production of a health-promoting product - bee bread" Project 505-10-092800-A-01135-99 (2012-2013), "Studies on the bioaccumulation of selenium ions by the cell biomass of the feed yeast <i>Candida utilis</i> ATCC 9950" Project OPI, UDA-POIG.01.03.02-00-011/10 (2011-2015), "Patent protection of an invention concerning a strain of yeast and a method of obtaining a dried preparation of this yeast, guaranteeing the preservation of technological features enabling the fermentation of worts (honey) with high sugar concentrations" Project OPI, UDA-POIG.01.03.02-00-014/10 (2011-2015), "Patent protection of an invention regarding strains and a method of obtaining a health-promoting product based on flower pollen and
	bee honey"
Topic – research problem – for which the candidate supervisor seeks a doctoral student	 Molecular studies of the evolutionary adaptation of yeast to changing stress conditions Study on the influence of selenium on physiological functions and metabolism of lipolytic yeast cells
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